

**AMENDMENT TO THE ABSTRACT:**

Please replace the abstract currently on file with the following abstract:

The present invention relates to a stem cell expansion factor, and to a method for enhancing hematopoietic stem cell (HSC) expansion by direct delivery of a protein in the cell and which protein is able to cross cell membrane. The method comprises directly delivering in a HSC an amino acid sequence having the activity of a peptide encoded by a Hoxb4 nucleotide sequence. Once delivered, the amino acid sequence is functionally active in the hematopoietic stem cell and enhances expansion thereof. The amino acid sequence may is a HOXB4 or HOXA4 protein.